

England
Germany
Netherlands
Sweden

Sponsors: FHWA, AASHTO, NCHRP

Scan Trip Concept

- Convene a team of experts
- Send team to selected countries
- Identify technologies/practices that might have immediate or near-term implementation value in the U.S.





Traffic Incident Response - Why is it Important?

- 50-60% of congestion is non-recurring events
- Half of these events are from crashes, spilled loads, and disabled vehicles
- 14-18% of all crashes result from other incidents
- Incident management is receiving greater attention
 - National Traffic Incident Management Coalition
- Improving response effectiveness benefits safety and mobility

TIR Scan Trip

- Traffic Incident Response (TIR)
- Major issues of interest
 - Pre-incident planning
 - Organizational response and on-scene operations
 - Incident responder and activity coordination
 - Tools, systems, and communication technologies
 - Incident response resource management and administration
- Trip objective
 - Examine programs and practices that provide coordinated response to traffic incidents

TIR Team



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Representing: FHWA, state DOT, fire, police, medical, trucking, and research perspectives

Locations Visited

- Countries & cities
 - England
 - Birmingham
 - Germany
 - Ahrweiler, Cologne, Bergisch-Gladbach
 - The Netherlands
 - Delft, Arnhem
 - Sweden
 - Stockholm

Two weeks in April 2005



TIR Trip Implementation

- Team member presentations
 - Wide range of meetings and audiences
- Summary report
 - Submitted June 1
- Final report
 - Publication in late 2005
- Scan Technology Implementation Plan (STIP)
 - Coordinated with NTIMC



Observations about Incident Response Practices

- Countries geographically compact higher population densities
 - Practical to implement and operate national traffic management/information centers
 - Countries less complex institutionally, lesser amounts of overlapping authority
 - Difficult to compare national practices in Europe to national practices in the U.S.
- Generally a national leader for coordinating incident response efforts

Observations about Incident Response Practices (Continued)

- Service patrols provide traffic control and motorist assistance to drivers and responders
- Clear jurisdictional responsibility for the police authority responding to incidents

Observations about Incident Response Practices (Continued)

- Fire departments had significant resources and training relative to incident response efforts
- Medical response is typically coordinated with the fire department response
 - Medical response might include dispatching of a doctor to scene

Observations about Incident Response Practices (Continued)

- National auto clubs provide roadside repair or towing services to members
 - Many drivers belong to an auto club
 - Auto club responders often able to provide roadside vehicle repairs
 - Auto club response vehicles often have towing capability
- Recovery companies often contracted for incident response
 - Required to meet minimum qualifications
 - Required to meet response time criteria to maintain their contract

Programs and Institutional Issues

Recommendations on:

- National incident response policy
- On-scene working relationship of incident responders
- Performance measures
- Training
- Auto clubs

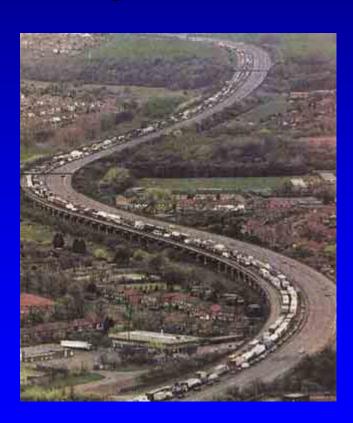


Netherlands Safety Priority

Netherlands priority for handling incidents:

- 1. Worker safety
- 2. Traffic safety
- 3. Assistance to victims
- 4. Maintaining flow
- 5. Salvaging cargo/vehicle





Relationship of Incident Responders

- Incident response agencies should adopt formal agreements between response agencies that are:
 - Incorporated into day-to-day operations
 - Integrated into training programs and included in regular rehearsals for incident response scenarios
 - The subject of ongoing joint planning
 - Addressed as part of the debriefing activities of individual incidents

Partnerships in England









Partnerships



Traffic Officer



Incident Support Unit

Performance Measures

- Develop guidance on performance measures:
 - Can be used by local and regional stakeholders to assess programs
 - Accounts for regional variations
 - Establishes basic minimum criteria
 - Funding to support meeting criteria

Training

- All incident responders should receive training in incident safety and first aid
- Stakeholders should conduct regular and coordinated training
 - Apply across agencies and jurisdictions
- Integrate road incidents into training for all responders
- Develop certification and accreditation to improve accountability

Auto Clubs

 Identify ways that auto clubs can contribute to quick clearance of incidents





Auto Club Assistance

- Auto clubs play important role
 - Repair gear
 - Computer diagnostics







Recommendations for Tactical and On-Scene Operations

Safety of Responders and Users

- Develop national guidelines on:
 - High visibility garments
 - Buffer zones
 - Response vehicle positioning
 - Vehicle lighting and marking









Vehicle Livery



















Neat Stuff

- Team saw several interesting or potentially useful practices
- These practices are not a part of the team's recommendations





Swedish Road Administration Service Patrol Vehicle

- Rear seat to accommodate passengers
- Truck mounted attenuator
- Small crane
- Real-time video camera











Motorcycle Use

Dutch roadside assistance (auto club)

Sweden looking at motorcycle with foldable

car trailer







Portable Lighting

Powermoon

- Portable lighting unit
- Provide scene lighting
- Reduces the glare for approaching vehicles
- (www.powermoon.de)





Automated Enforcement

- Automated enforcement widely used
 - Red light running cameras
 - Speed cameras





Fire Response Equipment

Firexpress

- Uses small water droplets combined with foam
- Low pressure, portable, minimal water
- Safe for humans
- Guidance for locating cutting points on vehicles for extraction equipment
 - Software specific to individual vehicle designs
 - Addresses: airbag gas cartridges, airbag sensors, belt pretensioners, batteries in hybrids, electrical hazards, strengthened materials, etc.

Training

- Virtual reality (augmented reality) training used in Netherlands
 - Provides realistic scenarios
 - Coordinates all types of responders





Thank You







